MEHANI ALEM ORTODOX
ERITREAN CHURCH

DRAWING INDEX:

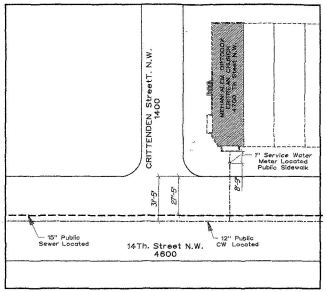
A-1 KEY PLAN, DOOR SCHEDULE, FINISH SCHEDULE, SECTIONS, CODES APPLIED, NOTES

A-1 FLOOR PLAN, ELEVATIONS

E-1 ELECTRIC LAYOUT PLAN, WIRE SIZE SCHEDULE, ELECTRIC PANELBOARD,LIGHTING FIXTURE SCHEDULE, NOTES

P-1 PLUMBING PLAN, SANITARY RISER DIAGRAM, HOT COLD WATER RISER DIAGRAM, FIXTURE SCHEDULE, WATER HEATER DETAILS, NOTES

M-1 MECHANICAL LAYOUT PLAN, VENTILATION FAN SCHEDULE, ASS. DEVICE SCHEDULE, NOTES



KEY PLAN
Not To Scale

CODES APPLIED

NFPA 101 & 72
ANSI A117.1 & ADA
NEC 1990
BOCA – NATIONAL BUILDING CODE 1990
BOCA – NATIONAL PLUMBING CODE 1990
BOCA – NATIONAL MECHANICAL CODE 1990
GORVERNING CODES: 1992 D.C. SUPPLIMENT

DOOR SCHEDULE

DOOR TYPE	DOOR LOCATTION	DOOR SIZE	DOOR MATERIAL	FRAME MAT.	HARDWARE	REMARKS
①	EXISTING ENTRANCE	36"X80"	GLASS	METAL	ADA LEVER	TWO WINGS
②	NEW ENTRANCE	30"X80"	HALLOW WOOD	WOOD	ADA LEVER	METAL FRAME W/ PANIC HARDWARE
②	HALLWAY	36"X80"	HALLOW WOOD	WOOD	ADA LEVER	
③	HC TOILETS	36"X80"	HALLOW WOOD	WOOD	ADA LEVER	NEW WOODDOOR. CUT 2" @ BOTTOM. SELF CLOSING HARDWARE.

GENERAL NOTES:

PROJECT NAME:	MEHANI ALEM ORTODOX- ERITREAN CHURCH
PROJECT ADDRESS:	4700 14 Th.Street NW. WASHINGTON D.C.
CONSTRUCTION TYPE:	2C
BUILDING FLOOR AREA:	2,000 SQ.FT.
USE GROUP:	B
NO.OF STORIES IN BUILDING:	ONE
HEIGHT OF BUILDING:	15'-0"
FULLY SPRINKLERED:	NO
FIRE ALARM SYSTEM IN BUILDING:	NO
OCCUPANT LOAD	- 100 SQ.FT. PER OCCUPANT MAXIMUM 115 PEOPLE - MAXIMUM 5 EMPLOYEES

1- DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS AND / OR SIZES.THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD MEASURE EXISTING CONDITIONS PRIOR TO BE CORRECTED AT HIS EXPENSE. DO NOT SCALE DRAWINGS,DIMENSIONS GOVERN.LARGE SCALE DETAILS GOVERN OVER SMALL SCALE UNLESS NOTED OTHERWISE.

2- ALL OTHER NEW AND EXISTING PARTITIONS WILL BE PAINTED WITH TWO COATS OF FLAT LATEX WALL PAINT.

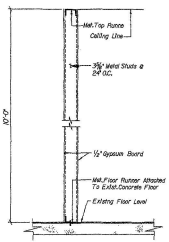
3- PROVIDE TWO COATS OF LATEX SEMI-GLOSS PAINT ON NEW DOORS.

4- ALL WARRANTIES,GUARANTEES AND MANUFACTURES INSTRUCTIONS OR EQUIPMENTS AND MATERIALS PROVIDED BY THE CONTRACTOR SHALL BE GIVEN TO THE OWNER.

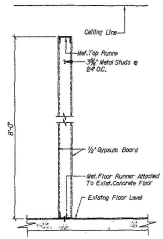
5- PERFORM ALL WORK IN CONFORMANCE TO ALL APPLICABLE CODES,CODES AND REGULATIONS OF LOCAL AUTHORITIES.

FINISH SCHEDULE

ROOM	DESCRIPTION	FLOOR: Concrete	FLOOR: Tile	FLOOR: Carpet	FLOOR: Vinyl	FLOOR: Wood	BASE: Ceramic	BASE: Cove	BASE: Rubber	WALLS: Paint	WALLS: Tile	WALLS: Wall Paper	CEILING: Paint	CEILING: Tile	CEILING: Wall Paper	REMARKS
1	SERVICE AREA		•		•			•		•	•					
2	HALLWAY		•		•			•		•	•					
3	EXIST. HC TOILET1		•		•			•		•	•					



SECTION A-A
TYP. INTERIOR PARTITION
Not To Scale



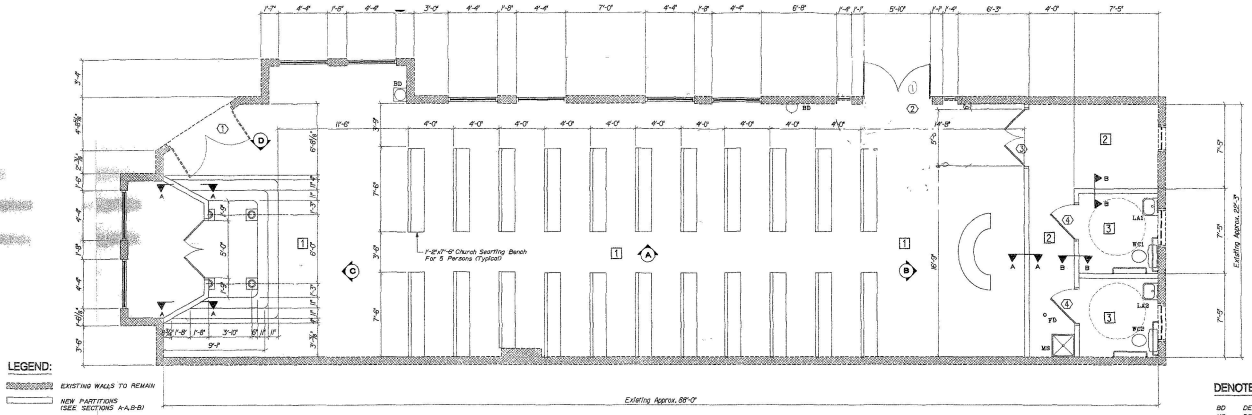
SECTION B-B
TYP. INTERIOR PARTITION
Not To Scale

BZA 16632

OWNER:	ERITREAN CHURCH	Design/Build BOCI BUILD-ON CONSTRUCTION	No.	DESCRIPTION	DATE
MEHANI ALEM ORTODOX ERITREAN CHURCH 4700 14Th. STREET N.W. WASHINGTON DC. 202-462-1414	FLOOR PLAN, DOOR SCHEDULE, FINISH SCHEDULE, SECTION AND NOTES	820 S.Washington Street,Suite 210, Falls Church, Virginia, 22046 703-237-1001 ARCHITECTS ENGINEERS PLANNERS INC.,		REVISIONS	

DISTRICT OF COLUMBIA — LONG T. VU — No. 5302 — Registered — ARCHITECT
COMMONWEALTH OF VIRGINIA — LONG T. VU 009079 — ARCHITECT
ENGINEER'S SEAL

DRAWN BY	VI VU
DESIGNED BY	TTN
CHECKED BY	TTN
DATE	MARCH, 2000
SCALE	AS NOTED
	A-1
SHEET	1 OF 6



LEGEND:

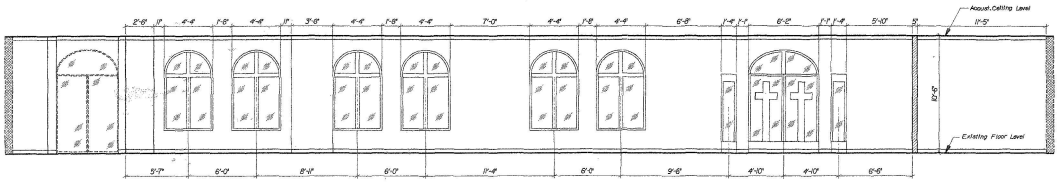
- EXISTING WALLS TO REMAIN
- NEW PARTITIONS (SEE SECTIONS A-A,B-B)
- NEW PARTITION SECTION

DENOTED:

BD	DENOTES BOLT DRINKING
MS	DENOTES MOP SINK
FD	DENOTES FLOOR DRAIN
LA	DENOTES LAVATORY
WC	DENOTES WATER CLOSET

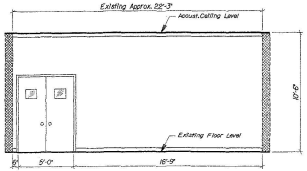
FLOOR PLAN

SCALE: 1/4" = 1'-0"



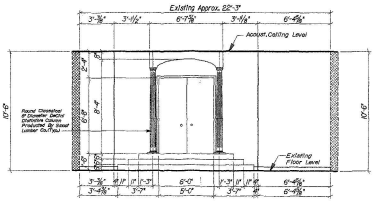
ELEVATION A

SCALE: 1/4" = 1'-0"



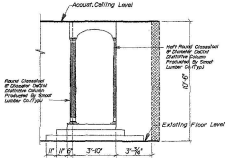
ELEVATION B

SCALE: 1/4" = 1'-0"



ELEVATION C

SCALE: 1/4" = 1'-0"



ELEVATION D

SCALE: 1/4" = 1'-0"

OWNER:
MEHANI ALEM ORTODOX ERITREAN CHURCH

4700 14Th. STREET N.W.
WASHINGTON DC,
202-462-1414

ERITREAN CHURCH

FLOOR PLAN, ELEVATIONS

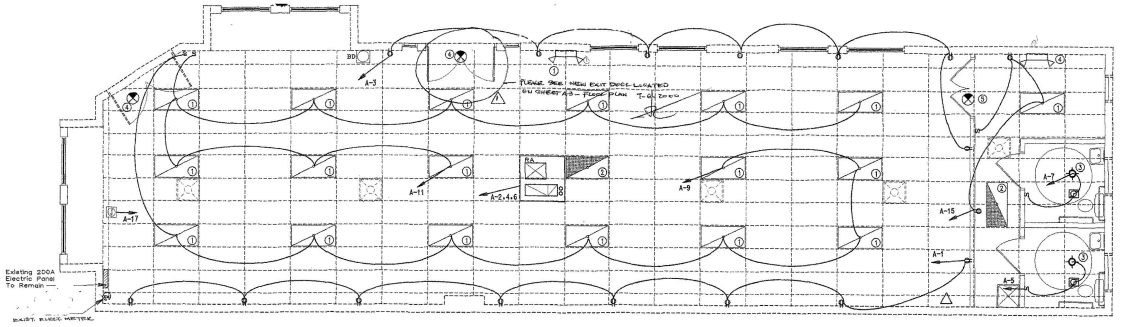
Design/Build
BOCI
BUILD-ON CONSTRUCTION INC.,
900 S. Washington Street, Suite 310, Falls Church, Virginia 22046
703-205-3420
ARCHITECTS
ENGINEERS
PLANNERS

No.	DESCRIPTION	DATE
	REVISIONS	

DISTRICT OF COLUMBIA
LONG T. VU
No. 5302
REGISTERED
ARCHITECT

ENGINEER'S SEAL

DRAWN BY	VI VU
DESIGNED BY	TTN
CHECKED BY	TTN
DATE	March, 2000
SCALE	AS NOTED
	A-3
SHEET	3 OF 6



REFLECTED CEILING PLAN ELECTRIC LAYOUT PLAN

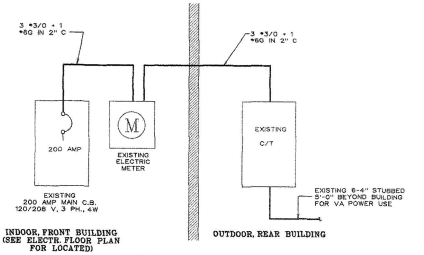
Scale: 1/4" = 1'-0"

ELECTRIC NOTES:

1. The contractor shall coordinate all work with the electrical sub-contractor.
2. The electrical contractor shall furnish all labor and materials necessary to accomplish the work shown and intended by the plans for complete operating electrical system.
3. All electrical work shall be performed by the licensed electrician under the work coordination of the contractor/subcontractor.
4. The installation shall comply with all applicable states and local codes and company regulations.
5. The electrical contractor shall guarantee all works he performed. All materials installed shall be in conforming with standards and free from defects. He shall repair or replace defective materials for a period of one year warranty from the date of completion of the project at no cost to the owner.
6. Electrician shall wire heating tapes on walk-in condensate drain lines, interconnect compressor and evaporator coils, and connect vapor-proof lights to switch for walk-in lights.
7. All final connections to equipment shall be completed by electrician, including but not be limited to all unions, grounding devices, fittings, switches, outlets conduit and wiring.
8. Electrical contractor shall be responsible for interconnecting all equipment to electrical panel.
9. Electrical contractor must wire exhaust fan comforming with local codes so that in the event of a fire the fan will automatically turn on or off.
10. Contractor Shall Submit Electrical Riser Diagram, Shop Drawings Issued By Qualified Electrical Technician In Washington D.C. For Electrical Permit And Shall Be Responsible For Electrical System Performances.

ELECTRICAL SYMBOLS:

- DUPLEX RECEPTACLE, 18" ABOVE FINISH FLOOR
- Φ_E EXISTING DUPLEX RECEPTACLE TO REMAIN
- EMERGENCY LIGHT WITH BATTERY (E) PACKS 6V, 24 HR.
- 5" DIA. RECESSED INCANDESCENT
- EXIT SIGN
- DISCONNECT SWITCH
- EXISTING 2x4 CEILING LIGHT
- 24 HR. 2x4 CEILING LIGHT
- 2'x4' RETURN AIR
- EXISTING 2'x2' DIFFUSERS
- MOTOR CONNECTION
- S SWITCH
- TELEPHONE JACK
- EXISTING JUNCTION BOX FOR SIGN, 24 HR., 7 DAY TIMECLOCK
- HOME RUN TO ELECTRIC PANEL BOARD



POWER RISER DIAGRAM

NOT TO SCALE

EXISTING ELECTRIC PANELBOARD

120/208V, 3 PHASE, 4 WIRE SOLID NEUTRAL PANELBOARD WITH 200 A MAIN BREAKER, 42 SPACE, FLUSH MOUNT

CIR. No.	BRK. SIZE	NO. OF POLES	WIRE SIZE	SERVICE FOR	VA	PH	VA	SERVICE FOR	WIRE SIZE	NO. OF POLES	BRK. SIZE	CIR. No.
A-1	20	1	12	LEFT RECEPTACLES	1260	A	2840	HVAC	6	3	50	A-2
A-3	20	1	12	RIGHT RECEPTACLES	1440	C	2840	----				A-4
A-5	20	1	12	TOILET1	300	B	2840	----				A-6
A-7	20	1	12	TOILET2	300	A	4500	WATER HEATER	12	1	20	A-8
A-9	20	1	12	RIGHT LIGHTING	560	B		SPARE				A-10
A-11	20	1	12	LEFT LIGHTING	630	C						
A-13	20	1	12	24HR, LIG., EXIT LIG., EMERG. LIG	500	A						
A-15	20	1	12	HALLWAY	530	B						
A-17	20	1	12	JUNCTION BOX	500	C						
A-19				SPARE		A						
						B						
						C						
						A						
						B						
A-41				SPARE		C		SPARE				A-42

TOTAL CONNECTED LOAD = 19,070

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMP	VOLTS	MOUNTING	MFR/CAT. NO.	REMARKS
(1)	2'x4' FLUORESCENT LIGHTING FIXTURE	32W, T18	120	RECESSED	COLUMBIA *SPS26-52-244	
(2)	2'x4' FLUORESCENT LIGHTING FIXTURE	32W, T18	120	RECESSED	COLUMBIA *SPS26-52-244	24Hr. LIGHTING
(3)	5" DIA. RECESSED INCANDESCENT	26w	120	RECESSED	PRESCOTLITE *CP826-8492	
(4)	EMERGENCY	FURNISH W/UNIT	120	WALL	PRESCOTLITE *EDS4-CUS-NB-120	WITH BATTERY PACKS 6V,
(5)	EXIT LIGHT	FURNISH W/UNIT	120	UNIVERSAL	PRESCOTLITE *EXPL2-R-EMFA	WITH BATTERY PACKS 6V,

WIRE SIZE SCHEDULE

AMPACITY	WIRE SIZE COPPER	CONDUIT SIZE
20 AMP	# 12 AWG	3/4"
25 AMP	# 10 AWG	3/4"
30 AMP	# 10 AWG	3/4"
50 AMP	# 6 AWG	1"

OWNER:
MEHANI ALEM ORTODOX ERITREAN CHURCH
4700 14Th. STREET N.W.
WASHINGTON DC,
202-462-1414

ERITREAN CHURCH

REFLECTED CEILING PLAN, ELECTRIC LAYOUT PLAN, ELECTRIC PANELBOARD, WIRE SIZE SHEDULE, POWER RISER DIAGRAM, NOTES

Design/Build
BOCI BUILD-ON CONSTRUCTION INC.,
900 S. Washington Street, Suite 210, Falls Church, Virginia 22046
703-699-0430
ARCHITECTS ENGINEERS PLANNERS

No.	DESCRIPTION	DATE
	REVISIONS	

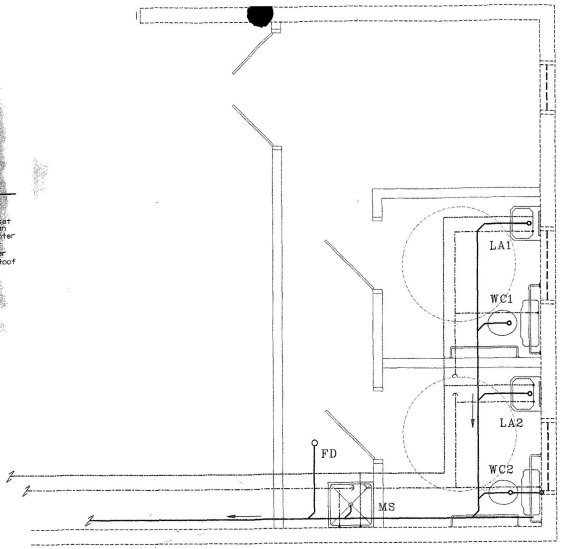
ENGINEER'S SEAL

DISTRICT OF COLUMBIA — VI VU — No. 8080 — REGISTERED PROFESSIONAL ENGINEER

DRAWN BY	VI VU
DESIGNED BY	TTN
CHECKED BY	TTVN
DATE	MARCH, 2000
SCALE	AS NOTED
SHEET	E-1
	4 OF 6

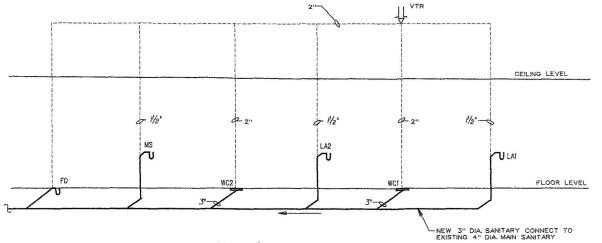
DENOTES:

MS Denotes Mop Sink
LA Denotes Lavatory
WC Denotes Water Closet
FD Denotes Floor Drain
WH Denotes Water Heater
HW Denotes Hot Water
CW Denotes Cold Water
VTR Denotes Vent To Roof

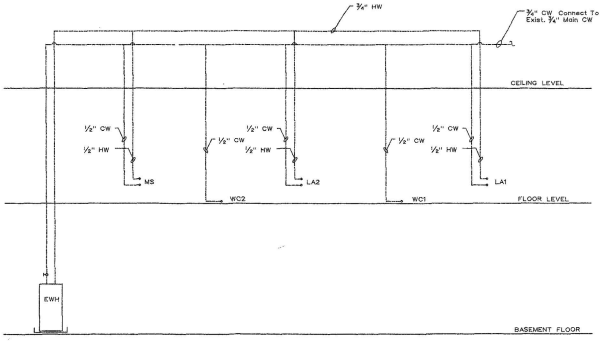


PLUMBING LAYOUT PLAN
NOT TO SCALE

MECHANICAL LEGEND:
- NEW WASTE
- EXIST. WASTE
- COLD WATER
- HOT WATER
- VENT PIPE



SANITARY RISER DIAGRAM
Not To Scale



HOT COLD WATER RISER DIAGRAM
Not To Scale

PLUMBING NOTES:

1. The contractor shall coordinate all work with the plumbing sub-contractor.

2. The plumbing contractor shall furnish all labor and materials necessary to accomplish the work shown and intended by the plans for complete operating plumbing system.

3. All plumbing work shall be performed by a licensed plumber or by mechanics under the work coordination of the contractor. Perior of one year warranty from the date of completionof the project.

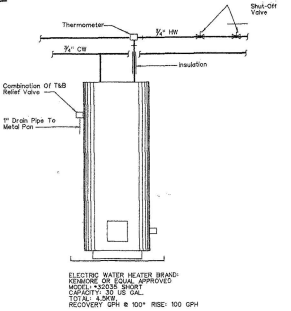
4. The installation shall comply with all applicable states and local codes and company regulations.

5. The plumbing contractor shall guarantee all works he performed. All materials installed shall be in conforming with standards and free from defects. He shall repair or replace defective materials for a at no cost to the owner.

6. All final connections to equipment to be made by plumber and shall include but not be limited to all shut-off or gate valves, gas cocks, vacuum breakers, hose bibs and piping.

7. All gaps arround plumbing and electrical lines must be eliminate by caulking.

8. Contractor shall sumit mechanical riser diagram, shop drawing issued by qualified mechanical technician in the Washington D.C. for mechanical and plumbing building permit and shall be responsible for mechanical and plumbing system performances.



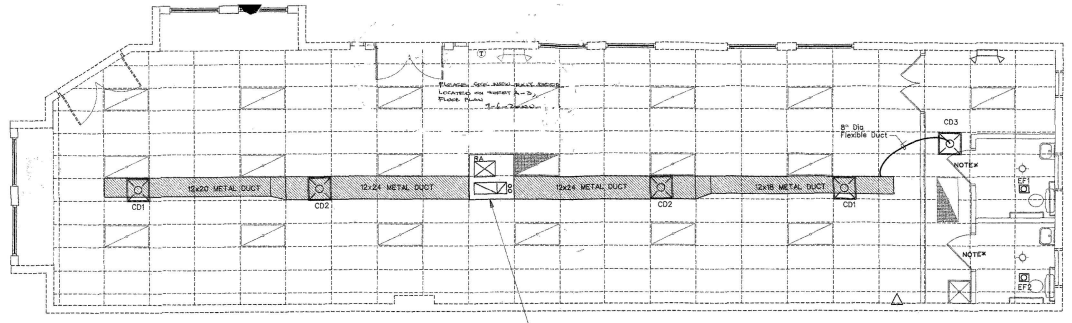
ELECTRIC WATER HEATER BRAND: KENMORE OR EQUAL APPROVED
TYPE: ELECTRIC - SHORT
CAPACITY: 30 US GAL.
TOTAL: 4.5KW
RECOVERY GPH @ 100° RISE: 100 GPH

EXISTING WATER HEATER DETAIL
NOT TO SCALE

JUN 16 2000

OWNER:	ERITREAN CHURCH	Design/Build BOCI BUILD-ON CONSTRUCTION INC., 800 S. Washington Street, Suite 210, Falls Church, Virginia 22046, 703-538-5400 — ARCHITECTS, ENGINEERS, PLANNERS	No.	DESCRIPTION	DATE	DRAWN BY: VI VU
MEHANI ALEM ORTODOX ERITREAN CHURCH 4700 14Th. STREET N.W. WASHINGTON DC, 202-462-1414	PLUMBING FLOOR PLAN, HOT COLD WATER RISER DIAGRAM, SANITARY RISER DIAGRAM, WATER HEATER DETAIL, NOTES			REVISIONS		DESIGNED BY: TTN CHECKED BY: TTVN DATE: MARCH, 2000 SCALE: AS NOTED SHEET: P-1 5 OF 6

ENGINEER'S SEAL



MECHANICAL LAYOUT PLAN

SCALE: 1/4" = 1'-0"

RTU INFORMATION:
New CARRIER,MODEL 50CD 0065,5 Tons Capacity
Low heat 90/73 MBH Input / Output
Supply Air CFM = 2,000CUM CFM = 700
2" Filter,For 30/30,Electric Data 208/230V - 3 PH - 60 Hz
MCA - 65.0,MOP - 70 Ampere,Heater 08EK0358 EB 00

NOTE*:
CUT 2" @ BOTTOM OF TOILET DOORS, SEE DOOR SCHEDULE @ SHEET A-1

DENOTES:

EF	75 CFM TOILET EXHAUST FAN
RA	Return Air
CD	24"X24" Ceiling Diffuser
CFM	Cubic Feet Per Minute
RTU	5 Ton package Roof Top Unit
	Single Line Ductwork With Transition
	8" Dia. Single Line Flexible Ductwork
T	Thermostat

MECHANICAL GENERAL NOTES:

WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL BUILDING,PLUMBING AND MECHANICAL CODES.

PROVIDE ALL EXCAVATION AND BACKFILL TO INSTALL ALL UNDERGROUND PIPING.

SUPPORT OVERHEAD PIPING DIRECTLY TO UNDERSIDE OF ROOF TRUSSES BY HANGER ROOS SECURED TO SIDE OF TRUSSES WITH CAAAGE SCREWS. HANGERS SHALL BE DELVIS TYPE.

4. PIPING:
   a/ SANITARY ABOVE FLOOR - SCHEDULE 40 PVC MAY BE USED AS ABOVE TOILET ROOM CEILING AS APPRIVES BY CODE AND PROVIDING PARTITIONS EXTEND TO ROOF DECK.
   b/ WATER PIPING BELOW GROUND - AS SPECIFIED FOR EXTERIOR WORK.
   c/ WATER PIPING ABOVE GRADE - TYPE L HARD COPPER WITH WROT COPPERS FITTINGS,95-5 SOLDER.
5. INSULATE WATER PIPING AFTER TESTING WITH ½" INCH THICKNESS GLASS FIBER WITH SELF-SEALING VAPOR BARRIER JACKET. INSULATE FITTINGS WITH ZESTON COVERS.
6. DUCTWORK:
   a/ DUCWORK SHALL BE GALVANIZED STEEL EXCEPT AS SPECIFIED HEREINAFTER OF SIZES INDICATED WITH SHEETS SHAPED AND CONSTRUCTED AS NOTED IN THE SMACNA MANUAL.
   b/ FLEXIBLE DUCTWORK SHALL CONSIST OF A COATED SPRING STEEL WIRE HELIX, POLYMERIC LINER, FIBERGLASS INSULATION AND FIBERGLASS REINFORCED METALLIZED FILM VAPOR BARRIER. FLEXIBLE DUCTS SHALL BE THERMOFLEX M-HC, WIREMOLD OR GENERAL.
   c/ CONCEALED SUPPLY AND RETURN DUCTWORK FROM AIR CONDITIONING UNIT MAY BE GLASS FIBER WITH INTERNAL DIMENSIONS AS NOTED ON THE DRAWINGS. DUCTBOARD SHALL BE ONE INCH

   INDICATED WITH A MAXIMUM FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50, AS MANUFACTURED BY OWENS CORNING, MANVILLE OR ST GOBAIN, AND SHALL BE INSTALLED AS RECOMMENDED IN SMACNA MANUAL.
   d/ MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING THE AIR SYSTEM IN ORDER TO OBTAIN INDICATED AIR FLOW AT EACH DEVICE.
7. CONTRACTOR SHALL SUBMIT MECHANICAL RISER DIAGRAM, SHOP DRAWING ISSUED BY QUALITIED MECHANICAL TECHNICIAN IN WASHINGTON D.C. FOR MECHANICAL AND PLUMBING BUILDING PERMIT AND SHALL BE RESPONSIBLE FOR MECHANICAL AND PLUMBING SYSTEM PERFORMSANCES.

MECHANICAL CODES:

PER BOCA NATIONAL MECHANICAL CODE 1990
SECTION M-1609.0 AND TABLE M-1804.3
VENTILATION AIR REQUIRED FOR SMALL CHURCH

25 PERSONS PER 1000 SQ.FT.
TENANT PLACE: 2000 SQ.FT
SERVICE AREA: 1750 SQ.FT.
MAXIMUM PROPOSAL LOAD:
50 PERSONS INCLUDE EMPLOYEES
MINIMUM AIR REQUIRED: 30 X 25 = 750 CFM.

VENTILATION FAN SCHEDULE

	EF 1	EF 2
FAN TYPE	EXHAUST FAN	EXHAUST FAN
LOCATION	EXISTING HC TOILET 1	HC TOILET 2
TOTAL AIR CFM	75	75
TOTAL S.P.	.125	.125
DESIGN RPM	1550	1550
DESIGN HP	50 WATT	50 WATT
MANUFACTURER	PEN (ZEPHYR)	PEN (ZEPHYR)
MODEL NUMBER	Z6	Z6
ELECTRICAL SERVICE	120-1P-60	120-1P-60
EMERGENCY SHUT DOWN	N/A	N/A
DISCONNECT SWITCH	NO	NO
BACKDRAFT DAMPER	YES	YES
BIRD SCREEN (1/4")	YES	YES
PRE-FABRICATED CURB	N/A	N/A
REMARK1		

AIR DEVICE SCHEDULE

TAG	NUMB.	SYMBOL	SUPPLY	RETURN	EXHAUST	CFM	REMARKS
CD1	2		•			400	Exist. 24"x24" Ceiling Deffuser
CD2	2		•			500	Exist. 24"x24" Ceiling Deffuser
CD3	1		•			200	Exist. 24"x24" Ceiling Deffuser
EF 1	1				•	75	HC Toilet 1 Exhaust Fan
EF 2	1				•	75	HC Toilet 2 Exhaust Fan
RA	2			•		690	Exist. 12"x24" Return Air

THIS DRAWING IS PART OF THE SITE PLANS (Water, Sanitary and Storm) FOR WHICH A PERMIT HAS BEEN REVIEWED FOR GENERAL CONFORMITY TO THE PLUMBING PROVISIONS OF THE D.C. CONSTRUCTION CODES AND IS APPROVED.
JUN 16 2000
DEPARTMENT OF CONSUMER AND REGULATORY AFFAIRS
By: Raymond Braithwaite for Ed Kelly

DISTRICT OF COLUMBIA — REGISTERED — No. 8280 — PROFESSIONAL ENGINEER

OWNER:	ERITREAN CHURCH				
MEHANI ALEM ORTODOX ERITREAN CHURCH 4700 14Th. STREET N.W. WASHINGTON DC, 202-462-1414	MECHANICAL FLOOR PLAN, AIR DEVICE SCHEDULE, VENTILATION FAN SCHEDULE, NOTES	Design/Build BOCI BUILD-ON CONSTRUCTION INC., 606 S. Washington Street, Suite 210, Falls Church, Virginia 22046, 703-538-3400 — ARCHITECTS ENGINEERS PLANNERS	No.	DESCRIPTION	DATE
				REVISIONS	

ENGINEER'S SEAL

DRAWN BY	VI VU
DESIGNED BY	TTN
CHECKED BY	TTVN
DATE	MARCH, 2000
SCALE	AS NOTED
	M-1
SHEET	6 OF 6